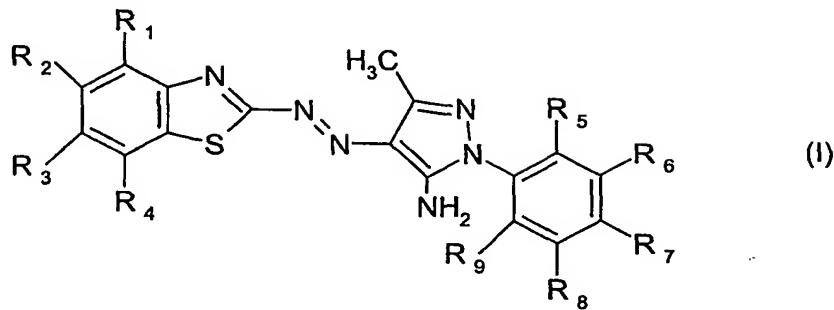


Claims

1. Dyestuffs according to the formula (I)

5



wherein

10 R_1, R_2, R_3, R_4 , independently from each other signifies H, Cl, Br, F, SO_3H , SO_2R , $SO_2NR'R''$, $COOR$, $COOH$, OH, alkyl, aryl, alkoxy, $NCOCH_3$, or $NR'R''$, or two neighbouring substituents R_1, R_2, R_3 , or R_4 form together a ring which is annealed to the benzthiazole moiety and can be unsubstituted or substituted by SO_3H ;

15 R_5, R_6, R_7, R_8, R_9 independently from each other signifies H, Cl, Br, F, Alkyl, Aryl, Alkoxy, SO_3H , SO_2R , $NR'R''$, or two neighbouring substituents R_5, R_6, R_7, R_8 or R_9 form together a ring which is annealed to the phenyl moiety and can be unsubstituted or substituted by SO_3H ;

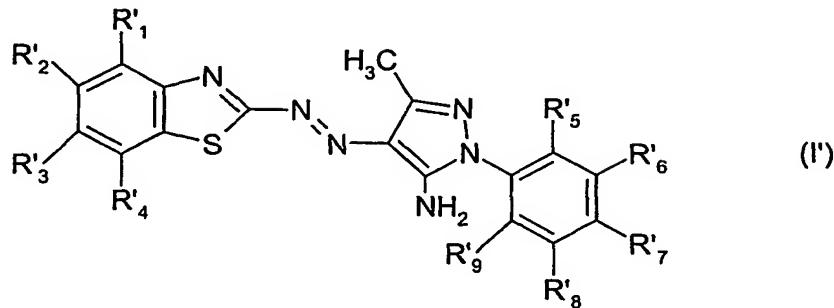
20 R is H, alkyl or aryl group which may be substituted or unsubstituted or R' and R'' are independently from each other H, alkyl or alkoxy or aryl groups which may be substituted or unsubstituted;

with the proviso that at least one of the substituents R_5, R_6, R_7, R_8, R_9 is different from H;

25

as well as their salts and/or mixtures thereof.

2. The dyestuff according to claim 1 characterized in that they have the formula (I')



wherein

5 R'1, R'2, R'3, R'4, independently from each other signifies H, SO₃H, SO₂R, SO₂NR'R'', COOR, COOH, alkyl, alkoxy, NCOCH₃, or NR'R'', or two neighbouring substituents R'1, R'2, R'3, or R'4 form together a ring which is annealed to the benzthiazole moiety and can be unsubstituted or substituted by SO₃H and wherein at least two of the substituents R'1, R'2, R'3 or R'4 signify H;

10

R'5, R'6, R'7, R'8, R'9 independently from each other signifies H, Alkyl, Aryl, methoxy or ethoxy, SO₃H, SO₂CH₂CH₂-OH, NR'R'', or two neighbouring substituents R₅, R₆, R₇, R₈ or R₉ form together a ring which is annealed to the phenyl moiety and can be unsubstituted or substituted by SO₃H; and wherein at 15 least two of the R'5, R'6, R'7, R'8 or R'9 signify H;

15

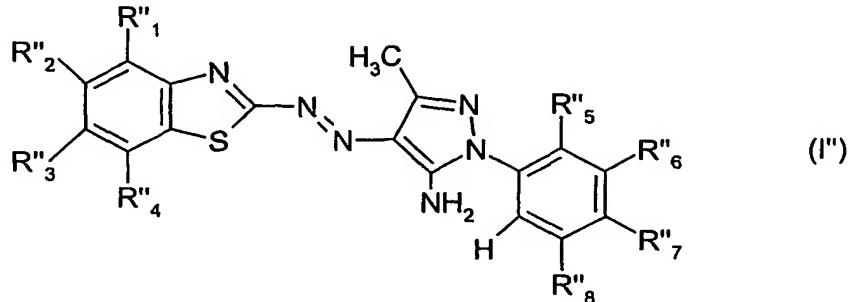
with R R' and R'' as defined above;

20

with the proviso that at least one of the substituents R'5, R'6, R'7, R'8 or R'9 is different from H.

3. The dyestuff according to claim 1 or 2 characterized in that R₉ or R'9 signifies H.

4. The dyestuff according to claim 3 characterized in that they have the formula (I'')



wherein

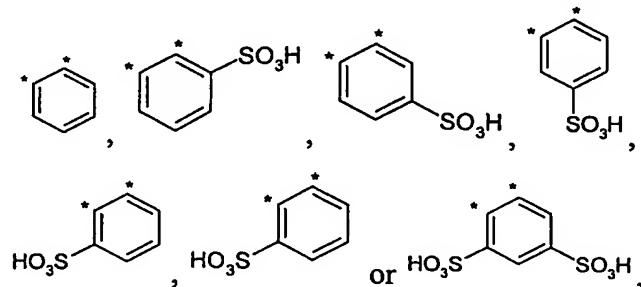
5 R''₁, R''₂, R''₃, R''₄, independently from each other signifies H, SO₃H, SO₂CH₂CH₂-OH, SO₂NH₂, SO₂N(CH₃)₂, COOH, COOCH₃, COOCH₂CH₃, CH₃, CH₂CH₃, OCH₂CH₂OH, NCOCH₃, N(CH₃)₂ or NH₂, or two neighbouring substituents R''₁, R''₂, R''₃, or R''₄ form together a six membered ring which is annealed to the benzthiazole moiety and can be unsubstituted or substituted by 10 SO₃H and wherein at least two of the substituents R''₁, R''₂, R''₃ or R''₄ signify H;

15 R''₅, R''₆, R''₇, R''₈, R''₉ independently from each other signifies H, methyl, ethyl, aryl, methoxy or ethoxy, SO₃H, SO₂CH₂CH₂-OH, NH₂, or two neighbouring substituents R₅, R₆, R₇, R₈ or R₉ form together a six membered ring which is annealed to the phenyl moiety and can be unsubstituted or substituted by SO₃H; and wherein at least one of the R''₅, R''₆, R''₇ or R''₈ signifies H.;

with the proviso that at least one of the substituents R'₅, R'₆, R'₇, R'₈ or R'₉ is different from H.

5. The dyestuff according to claim any of the preceding claims characterized in that the six membered ring which is annealed to the phenyl has one of the formula

5



wherein the asterix signify the point of attachement to the phenyl.

6. An ink jet printing ink or an printing paste or an liquid dyeing preparation
10 comprising at least one of the dyes according to the claims 1 or 2 or 3 or 4 or 5.

15
7. Use of at least one of the dyes according to the claims 1 or 2 or 3 or 4 or 5 for dyeing or printing or ink jet printing organic substrates.

8. Use according to claim 7 charactericed in that the organic substrate is paper or a
papery substrate.

20
9. Organic substrates dyed or printed with at least on of the dyes according to the
claims 1 or 2 or 3 or 4 or 5.

25 10. The dyed or printed substrate according to claim 9 characterized in that the
organic substrate is paper or a papery substrate.